

  
14230 U.S. PTO  
112103  
**UTILITY APPLICATION**

Attorney Docket No.: NIH214.001C1

First Named Inventor: Stephen S. Whitehead

Title: **DEVELOPMENT OF MUTATIONS USEFUL FOR  
ATTENUATING DENGUE VIRUSES AND CHIMERIC  
DENGUE VIRUSES**

Express Mail Label No.: EV 309082606 US

**Direct all correspondence to Customer No.: 20995**

Date: November 21, 2003

Page 1 of 2

**Mail Stop Patent Application**

United States Patent and Trademark Office

PO Box 1450

Alexandria, VA 22313-1450

The following enclosures are transmitted herewith to be filed in the patent application of:

Inventor(s):

- |                         |                          |
|-------------------------|--------------------------|
| 1. Stephen S. Whitehead | 2. Brian R. Murphy       |
| 3. Kathryn A. Hanley    | 4. Joseph E. Blaney, Jr. |

**APPLICATION ELEMENTS:**

- (X) Specification in 158 pages.
- (X) Drawings in 12 sheets.
- (X) Sequence Submission Statement in 1 page, and
- (X) Sequence Listing on paper in 72 pages.
- (X) Sequence Listing in CRF.

**CONTINUITY INFORMATION:**

Application	Relationship	Parent App. No.	Filing Date	Status
This Application	Continuation	PCT/US02/16308	5/22/02	Pending
PCT/US02/16308	Benefit of priority	60/293,049	5/22/01	Expired

- (X) Incorporation by Reference. The entire disclosure of the prior application(s) is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

**OTHER APPLICATION PARTS:**

- (X) Return prepaid postcard.


<b>UTILITY APPLICATION</b>	Attorney Docket No.: <b>NIH214.001C1</b>
	First Named Inventor: <b>Stephen S. Whitehead</b>
	Title: <b>DEVELOPMENT OF MUTATIONS USEFUL FOR ATTENUATING DENGUE VIRUSES AND CHIMERIC DENGUE VIRUSES</b>
	Express Mail Label No.: <b>EV 309082606 US</b>
<b>Direct all correspondence to Customer No.: 20995</b>	
Date: November 21, 2003 Page 2 of 2	

**FILING FEES:**

FEE CALCULATION				
FEE TYPE		FEE CODE	CALCULATION	TOTAL
Basic Utility		1001 (\$770)		\$770
Non-English Spec.		1053 (\$130)		\$0
Recordation Fee		8021 (\$40)	0 x 40 =	\$0
Excess Claims > 20	215 - 20 = 195	1202 (\$18)	195 x 18 =	\$3510
Independent > 3	4 - 3 = 1	1201 (\$86)	1 x 86 =	\$86
Multiple Claim		1203 (\$290)		\$290
			<b>TOTAL FEE DUE</b>	<b>\$4656</b>

(X) A check in the amount of **\$4656** to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.

  
 \_\_\_\_\_  
 Nancy W. Vensko  
 Registration No. 36,298  
 Attorney of Record  
 Customer No. 20,995  
 (805) 547-5580

MAIL STOP PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

**Attorney Docket No.** : NIH214.001C1

**Applicant(s)** : Whitehead et al.

**For** : DEVELOPMENT OF MUTATIONS USEFUL  
FOR ATTENUATING DENGUE VIRUSES  
AND CHIMERIC DENGUE VIRUSES

**Attorney** : Nancy W. Vensko


**"Express Mail"**  
**Mailing Label No.** : EV 309082606 US

**Date of Deposit** : November 21, 2003

I hereby certify that the accompanying

Transmittal letter; specification in 158 pages; 12 sheets of drawings; Sequence  
Submission Statement; Sequence Listing on diskette; paper copy of Sequence  
Listing in 72 pages; Check for Filing Fee; Return Prepaid Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to  
Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Nelson Merida

O:\DOCS\MXG\MXG-4035.DOC:vb  
112003